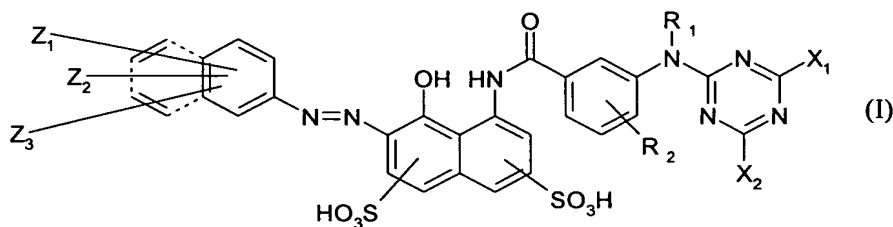


CLAIMS

1. A dyestuff of formula (I)



5

wherein

R₁ is H; C₁₋₄alkyl; substituted C₁₋₄alkyl; phenyl or substituted phenyl,

R₂ is H; C₁₋₄alkyl; substituted C₁₋₄alkyl; C₁₋₄alkoxy; -COOH; -COOCH₃; -CF₃;

10 -SO₃H, -CN or SO₂NHR₆,

where R₆ is H, C₁₋₄ Alkyl, phenyl or substituted phenyl

and

X₁ is NR₃R₄; SR₅; OH;

X₂ is NR₃R₄; SR₅; OH;

15 wherein

R₃ is H, C₁₋₄alkyl; substituted C₁₋₄alkyl; substituted phenyl,
naphthyl or substituted naphthyl

R₄ is H; C₁₋₄alkyl; substituted C₁₋₄alkyl; substituted phenyl,
naphthyl or substituted naphthyl

20 or R₃ and R₄ form 5- or 6-membered ring containing one or two hetero atoms, in
addition to N, O or S, which heterocyclic ring is unsubstituted or
substituted by one or two C₁₋₄alkyl groups

R₅ is C₁₋₄alkyl; substituted C₁₋₄alkyl; phenyl or substituted phenyl

and X₁ has not the meaning of X₂ unless X₁ or X₂ signifies SR₅ or OH;

25 and

Z₁ is H; C₁₋₄alkyl; substituted C₁₋₄alkyl; C₁₋₄alkoxy; -OH; -COOH; -COOCH₃; -
CF₃; -SO₃H; amino; alkylamino, -CN or SO₂NHR'₆,

where R'₆ is H, C₁₋₄ alkyl, phenyl or substituted phenyl

Z₂ is H; C₁₋₄alkyl; substituted C₁₋₄alkyl; C₁₋₄alkoxy; OH; COOH; -SO₃H

Z_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy ; OH; COOH; $-SO_3H$ as free acid or in salt form, as well as mixtures thereof.

2. A dyestuff according to claim 1 characterized in that

R_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl,

R_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; -COOH or -SO₃H
and

5 X_1 is NR_3R_4 ; SR_5 ; OH;

X_2 is NR_3R_4 ; SR_5 ; OH;

wherein

R_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl,
naphthyl or substituted naphthyl

10 R_4 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl,
naphthyl or substituted naphthyl or

R_3 and R_4 form a 5- or 6-membered ring containing one or two hetero atoms, in
addition to N, O or S, which heterocyclic ring is unsubstituted or
substituted by one or two C_{1-4} alkyl groups

15 R_5 is C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl
and X_1 has not the meaning of X_2 unless X_1 or X_2 signifies SR_5 or OH;
and

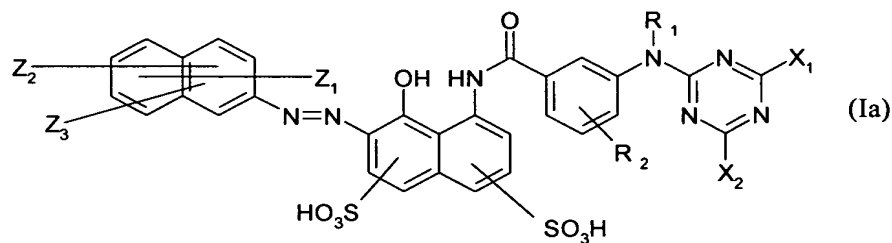
Z_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; -OH; -COOH; -COOCH₃; -
CF₃; -SO₃H; amino; alkylamino, -CN or SO₂NHR'₆,

20 where R'₆ is H, C_{1-4} alkyl, phenyl or substituted phenyl

Z_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH; COOH; -SO₃H

Z_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH; COOH; -SO₃H
as free acid or in salt form, as well as mixtures thereof

25 3. A dyestuff according to claim 2 characterized by the formula (Ia)



wherein

R_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl,

R_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; -COOH or -SO₃H

and

X_1 is NR_3R_4 ; SR_5 ; OH ;

X_2 is NR_3R_4 ; SR_5 ; OH ;

wherein

5 R_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl, naphthyl or substituted naphthyl

R_4 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl, naphthyl or substituted naphthyl or

10 R_3 and R_4 form a 5- or 6-membered ring containing one or two hetero atoms, in addition to N, O or S, which heterocyclic ring is unsubstituted or substituted by one or two C_{1-4} alkyl groups

R_5 is C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl

and X_1 has not the meaning of X_2 unless X_1 or X_2 signifies SR_5 or OH ;

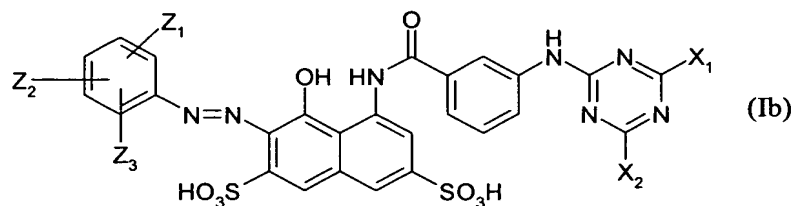
and

15 Z_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; $-OH$; $-COOH$; $-COOCH_3$; $-CF_3$; $-SO_3H$; amino; alkylamino, $-CN$ or $SO_2NHR'_6$, where R'_6 is H, C_{1-4} alkyl, phenyl or substituted phenyl

Z_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH ; $COOH$; $-SO_3H$

20 Z_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH ; $COOH$; $-SO_3H$ as free acid or in salt form, as well as mixtures thereof

4. A dyestuff according to claim 2 characterized by the formula (Ib)



wherein

25 R_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl,

R_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; $-COOH$ or $-SO_3H$

and

X_1 is NR_3R_4 ; SR_5 ; OH ;

X_2 is NR_3R_4 ; SR_5 ; OH ;

30 wherein

R_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl, naphthyl or substituted naphthyl

R_4 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl, naphthyl or substituted naphthyl or

- 5 R_3 and R_4 form a 5- or 6-membered ring containing one or two hetero atoms, in addition to N, O or S, which heterocyclic ring is unsubstituted or substituted by one or two C_{1-4} alkyl groups

R_5 is C_{1-4} alkyl; substituted C_{1-4} alkyl; phenyl or substituted phenyl and X_1 has not the meaning of X_2 unless X_1 or X_2 signifies SR_5 or OH;

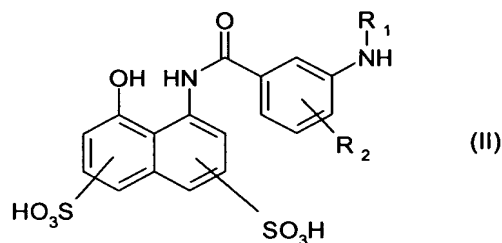
10 and

Z_1 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; -OH; -COOH; -COOCH₃; -CF₃; -SO₃H; amino; alkylamino, -CN or SO₂NHR'₆, where R'₆ is H, C_{1-4} alkyl, phenyl or substituted phenyl

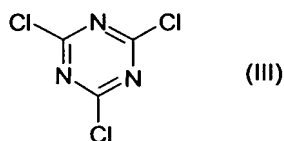
Z_2 is H; C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH; COOH; -SO₃H

- 15 Z_3 is H, C_{1-4} alkyl; substituted C_{1-4} alkyl; C_{1-4} alkoxy; OH; COOH; -SO₃H as free acid or in salt form, as well as mixtures thereof

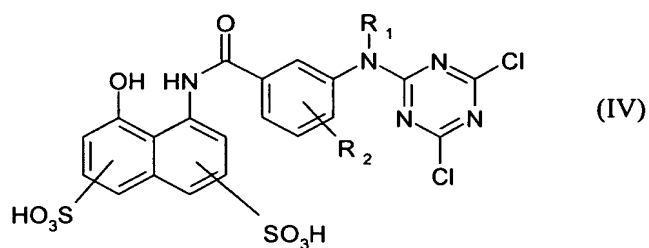
5. A process for the preparation of a compound according to the formula (I)
20 characterized in that in a first step a compound of formula (II)



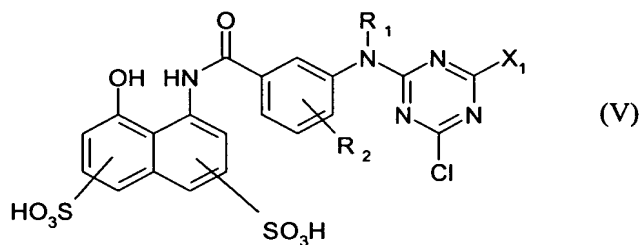
wherein all substituents have the meanings as defined above is reacted with a compound of formula (III)



- 25 leading to compounds according to formula (IV)

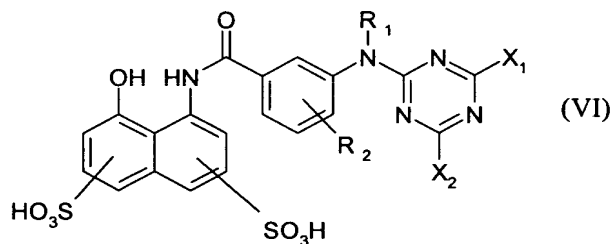


and in a second step the product of formula (IV) is reacted with one part of a compound of formula HX_1 wherein X_1 has the formula as described above which leads to compound of formula (V)

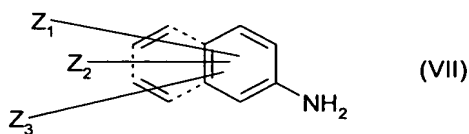


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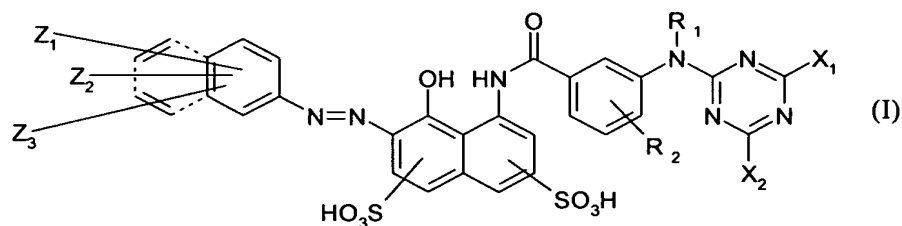
and in a third step the compound of formula (V) is condensated with a compound of formula HX_2 wherein X_2 has the formula as described above leading to compound of formula (VI)



10 wherein substituents R_1 and R_2 have the same meanings as defined above and in a final step a compound of formula (VI) is coupled with the diazoniumsalt of a compound of formula (VII)



leading to the dyestuff of formula (I)



15

wherein all substituents have the same meanings as defined above.

5 6. An Ink Jet Ink comprising at least one compound according to claim 1 or 2 or 3 or 4.

10 7. An Ink Jet Ink according to Claims 6 characterized in that the total content of salts is less than 0.5% by weight, based on the total weight of the dyes.

15 8. Use of compounds according to claim 1 or 2 or 3 or 4 for printing recording material and/or in an inkjet printing process for printing recording materials and/or dyeing substrates comprising cellulose.

20 9. Use according to claim 8 characterized in that the recording material is paper or a papery substrate.

 10. A recording material or a papery substrate or substrates comprising cellulose printed or dyed with a compound according to claim 1 or 2 or 3 or 4.